

AMENDMENTS TO THE CLAIMS

- 1 1. (Currently Amended) A method of transporting voice, voiceband data and phone
2 signaling over a network, the method comprising the steps of:
3 converting analog phone signals into voice packets for transporting digitized voice,
4 digitized voiceband data and digitized phone signaling, wherein said voice
5 packets conform to a set of protocols that excludes Internet Protocol (IP), and
6 wherein each of said voice packets is an Ethernet packet encapsulating one ATM
7 Adaptation Layer 2 (AAL2) cell;
8 setting a field in a frame header of a HomePNA frame that encapsulates each of the
9 voice packets associated with the digitized voice and digitized voiceband
10 indicating that the voice packets are to be transmitted at a highest level of priority
11 of a phone line local area network that supports levels of transmission priority for
12 transmitting data; and
13 transmitting said voice packets over the phone line local area network without a separate
14 voice dedicated network and without a logically separate voice network, wherein
15 the voice packets associated with the digitized voice and digitized voiceband are
16 transmitted at the highest level of priority as indicated by the setting of the field in
17 the frame header,
18 wherein said phone line local area network follows a HomePNA network protocol.

1 2. (Canceled)

1 3. (Canceled)

1 4. (Previously Presented) The method of Claim 1, wherein the step of transmitting
2 includes transmitting said voice packets over phone line inside wiring in a residence that
3 is connected to one or more analog telephones.

5. (Canceled)

6. (Canceled)

7. (Original) The method of Claim 1, wherein the steps of converting and transmitting are performed by a phone line adaptor connected to a separate device that transmits said analog phone signals to said phone line adaptor.

8. (Currently Amended) A network device that can transmit voice, voiceband data and phone signaling via a network, comprising:
a Codec configured to receive analog phone signals and generate digitized voice, and digitized voiceband data;
a Subscriber Line Interface Circuit (SLIC) configured to receive analog phone signaling and generate digitized phone signaling;
a network interface for interfacing to an local area network (LAN) that follows a ~~local area~~ HomePNA network protocol that supports levels of transmission priority for transmitting data without a separate voice dedicated network and without a logically separate voice network;
said network device configured to generate voice packets that include said digitized voice, digitized voiceband data and digitized phone signaling, by setting a field in a frame header of a HomePNA frame that encapsulates each of the voice packets associated with the digitized voice and digitized voiceband indicating that the voice packets are to be transmitted at a highest level of priority of the local area network, wherein said voice packets conform to a set of protocols that excludes Internet Protocol (IP), and wherein each of said voice packets is an Ethernet packet encapsulating one ATM Adaptation Layer 2 (AAL2) cell; and
said network device configured to transmit said voice packets via said local area network, wherein the voice packets associated with the digitized voice and digitized voiceband are transmitted at the highest level of priority as indicated by the setting of the field in the frame header.

1 9. (Canceled)

1 10. (Canceled)

1 11. (Original) The network device of Claim 8, wherein said LAN uses as a transmission
2 medium phone line inside wiring in a home that is connected to one or more analog
3 telephones.

1 12. (Canceled)

1 13. (Canceled)

1 14. (Original) The network device of Claim 8, wherein said network device is a phone
2 line adapter configured to receive said phone analog signals from a separate device
3 connected to said phone line adaptor.

1 15. (Currently Amended) A network device that can transmit digitized voice, digitized
2 voiceband data, and digitized phone signaling via a network, comprising:
3 a Codec configured to receive analog phone signals and generate digitized voice and
4 digitized voiceband data;
5 a Subscriber Line Interface Circuit (SLIC) configured to receive analog phone signaling
6 and generate digitized versions of said analog phone signaling[.];
7 a means for interfacing to an local area network (LAN) that follows a ~~local~~
8 ~~area~~HomePNA network protocol that supports levels of transmission priority for
9 transmitting data and that uses inside wiring as a transmission medium without a
10 separate voice dedicated network and without a logically separate voice network;
11 a means for generating voice packets for transporting digitized voice, digitized voiceband
12 data and digitized phone signaling, by setting a field in a frame header of a
13 HomePNA frame that encapsulates each of the voice packets associated with the

14 digitized voice and digitized voiceband indicating that the voice packets are to be
15 transmitted at a highest level of priority of the local area network, wherein said
16 voice packets conform to a set of protocols that excludes Internet Protocol (IP),
17 and wherein each of said voice packets is an Ethernet packet encapsulating one
18 ATM Adaptation Layer 2 (AAL2) cell; and
19 a means for transmitting said voice packets via said local area network, wherein the voice
20 packets associated with the digitized voice and digitized voiceband are
21 transmitted at the highest level of priority as indicated by the setting of the field in
22 the frame header.

1 16. (Canceled)

1 17. (Canceled)

1 18. (Currently Amended) A computer-readable medium carrying one or more sequences of
2 instructions for transporting digitized voice, digitized voiceband data and digitized phone
3 signaling over a network, wherein execution of the one or more sequences of instructions
4 by one or more processors causes the one or more processors to perform the steps of:
5 converting analog phone signals into voice packets for transporting digitized voice,
6 digitized voiceband data and digitized phone signaling, wherein said voice
7 packets conform to a set of protocols that excludes Internet Protocol (IP), and
8 wherein each of said voice packets is an Ethernet packet encapsulating one ATM
9 Adaptation Layer 2 (AAL2) cell;
10 setting a field in a frame header of a HomePNA frame that encapsulates each of the
11 voice packets associated with the digitized voice and digitized voiceband
12 indicating that the voice packets are to be transmitted at a highest level of priority
13 of a phone line local area network that supports levels of transmission priority for
14 transmitting data; and
15 transmitting said voice packets over the phone line local area network without a separate
16 voice dedicated network and without a logically separate voice network, wherein
17 the voice packets associated with the digitized voice and digitized voiceband are

18 transmitted at the highest level of priority as indicated by the setting of the field in
19 the frame header,
20 wherein said phone line local area network follows a HomePNA network protocol.

1 19. (Canceled)

1 20. (Canceled)

1 21. (Previously Presented) The method of Claim 1, wherein the step of transmitting
2 includes transmitting said voice packets over phone line inside wiring in a residence that
3 is connected to one or more analog telephones and one or more computer devices.

1 22. (Previously Presented) The network device of Claim 8, wherein said LAN uses as a
2 transmission medium phone line inside wiring in a home that is connected to one or more
3 analog telephones and one or more network devices.